

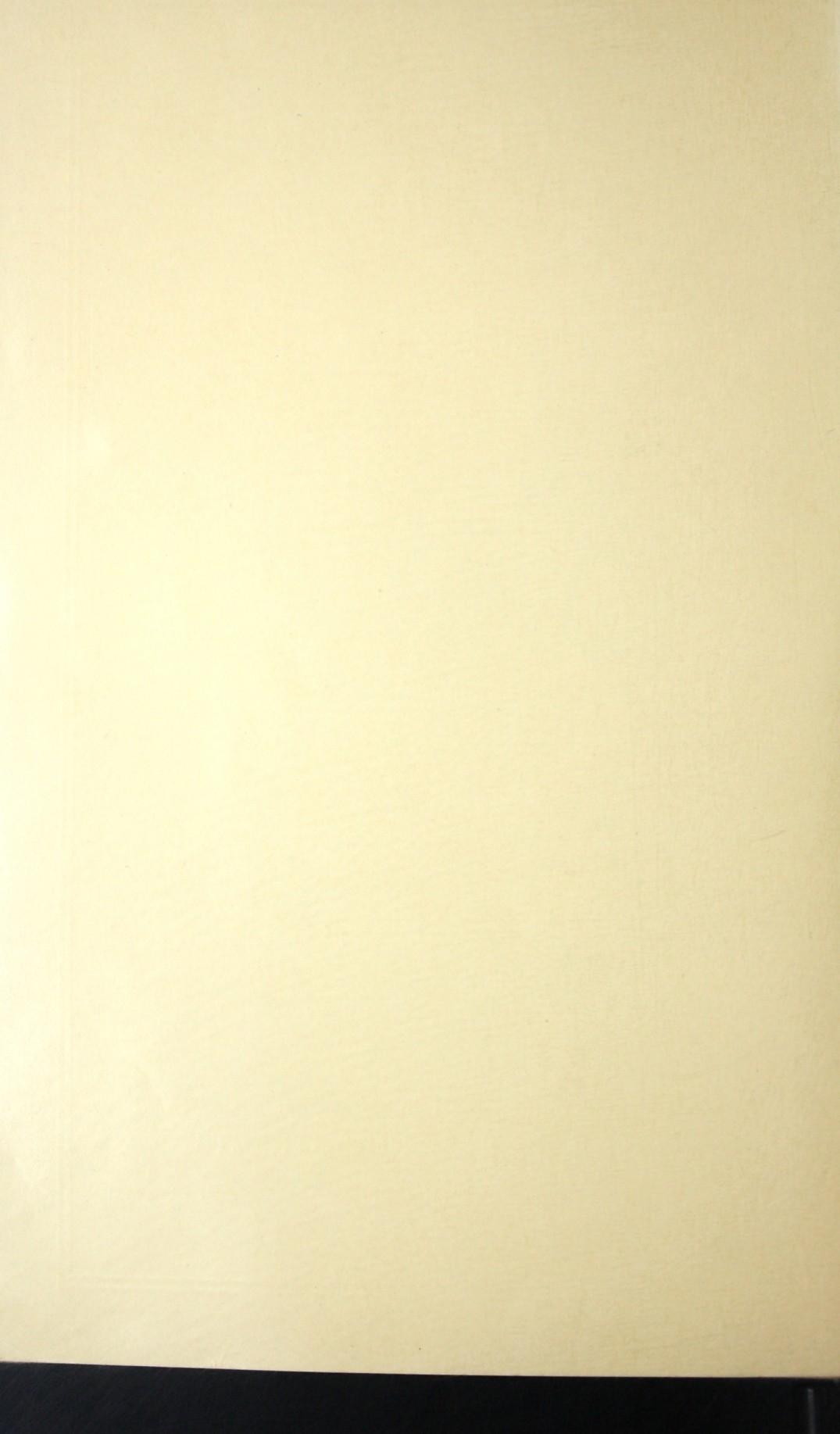
21.31

Dr. W. H. Green  
June 30<sup>th</sup> 1908

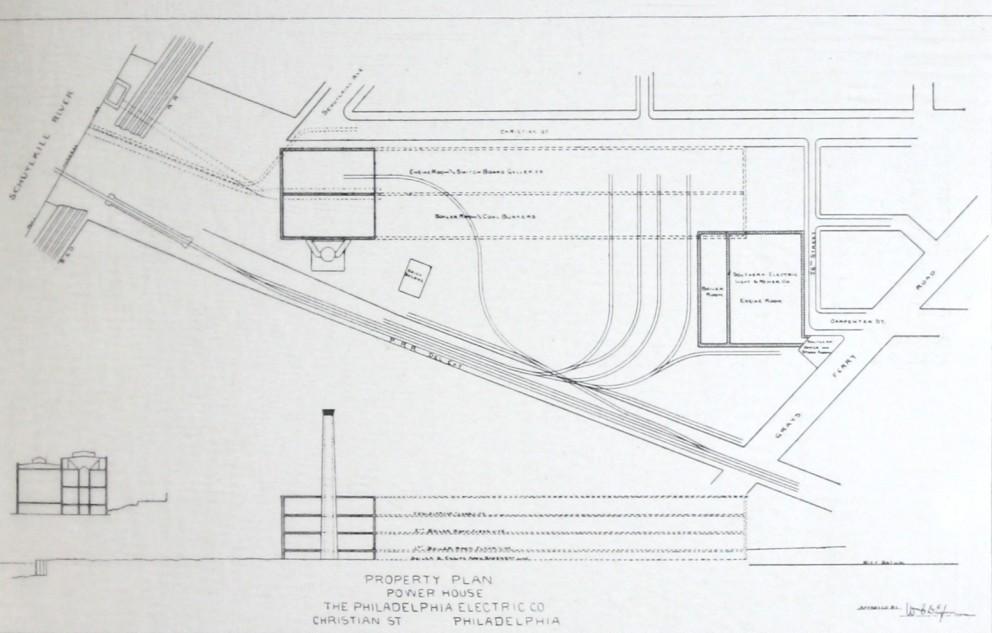
THE  
**GENERATING STATIONS**  
AND  
**SUB-STATIONS**  
OF  
**THE PHILADELPHIA**  
**ELECTRIC COMPANY**



MAIN OFFICE  
TENTH AND CHESTNUT STREETS  
PHILADELPHIA



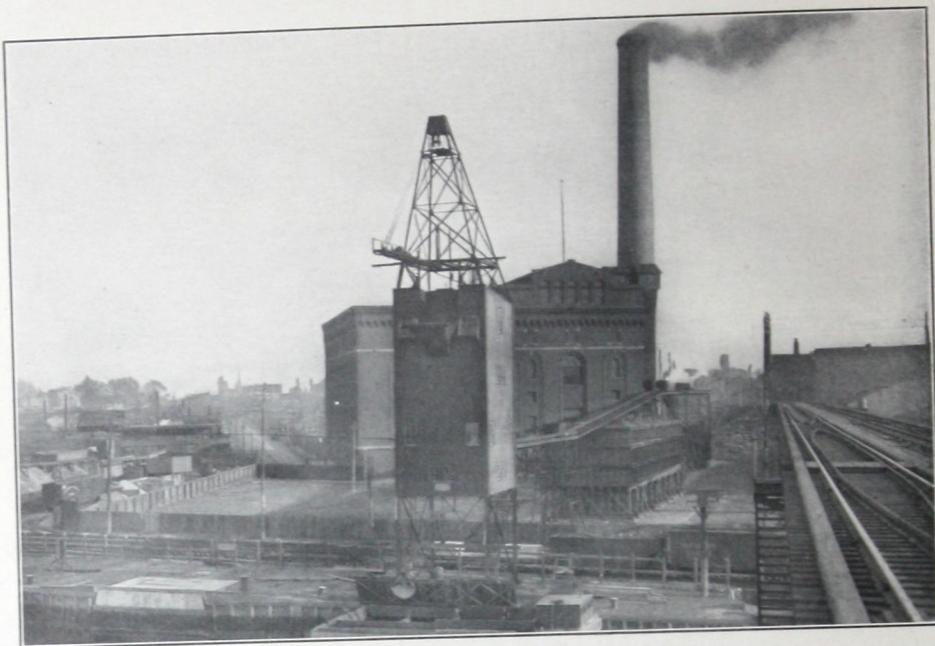
# THE PHILADELPHIA ELECTRIC COMPANY



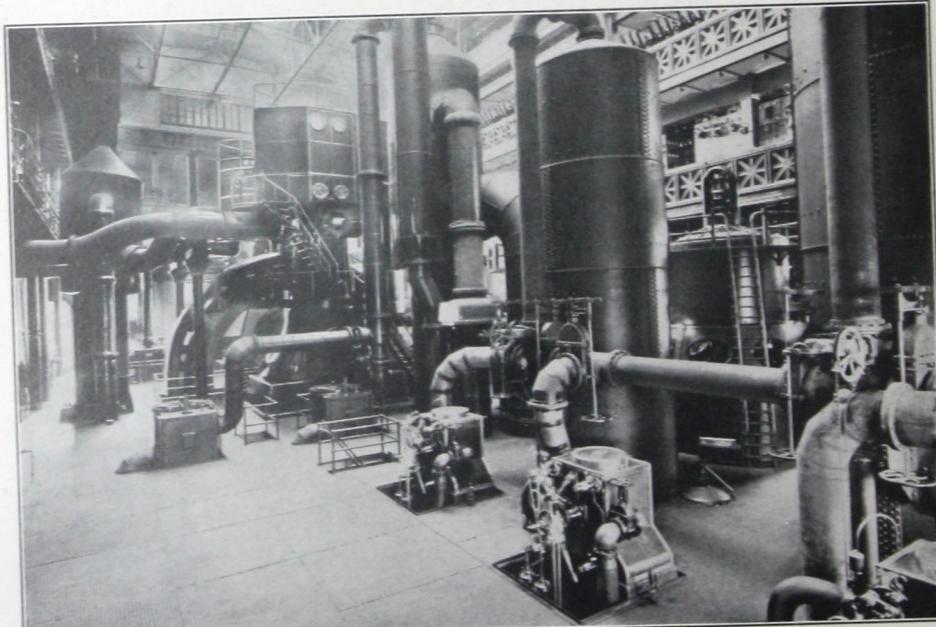
PROPERTY PLAN, MAIN GENERATING STATION  
Area, 11.03 acres

THE GENERATING STATIONS AND SUB-STATIONS

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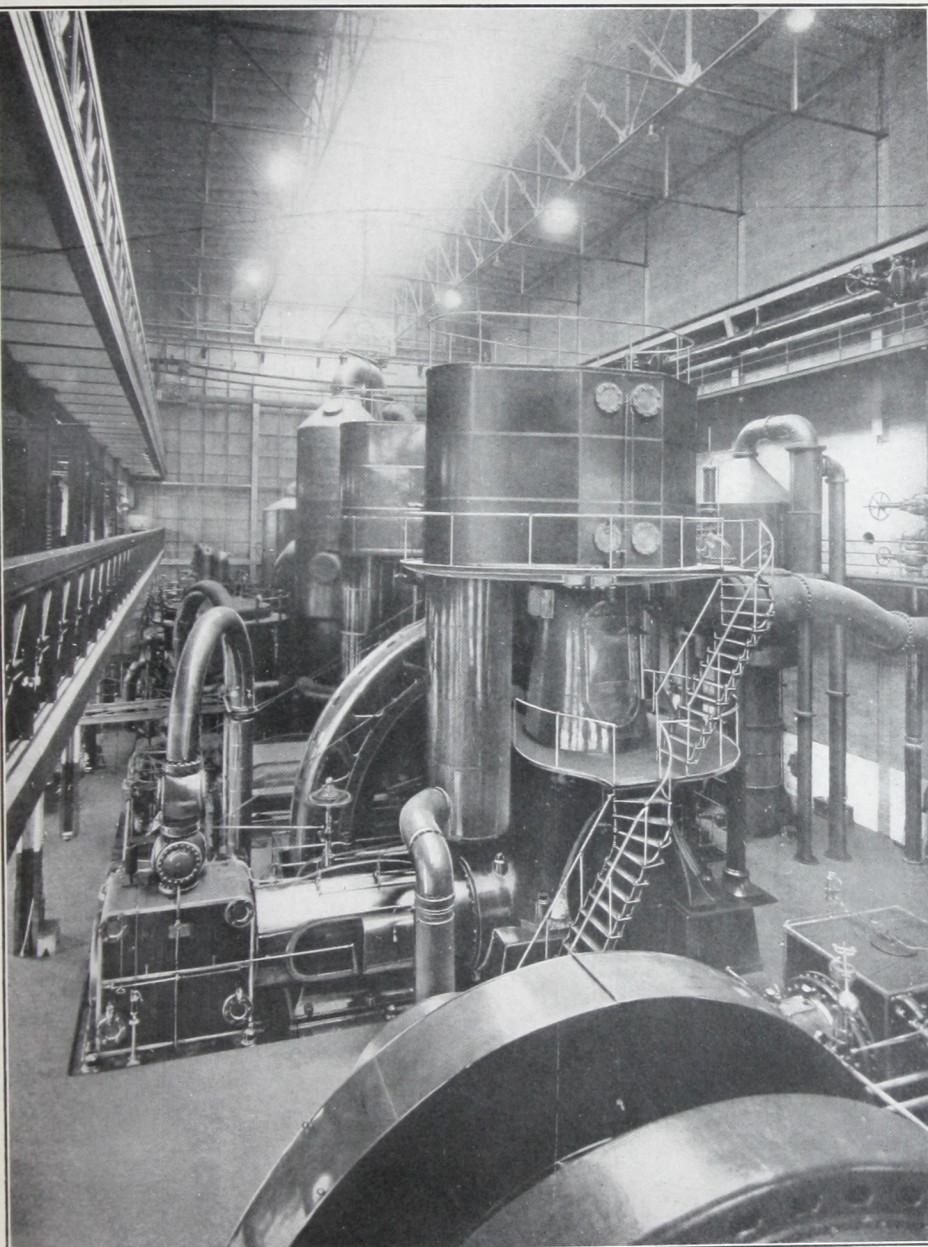


EXTERIOR OF MAIN GENERATING STATION (STATION A)



INTERIOR STATION A—SHOWING CONDENSERS

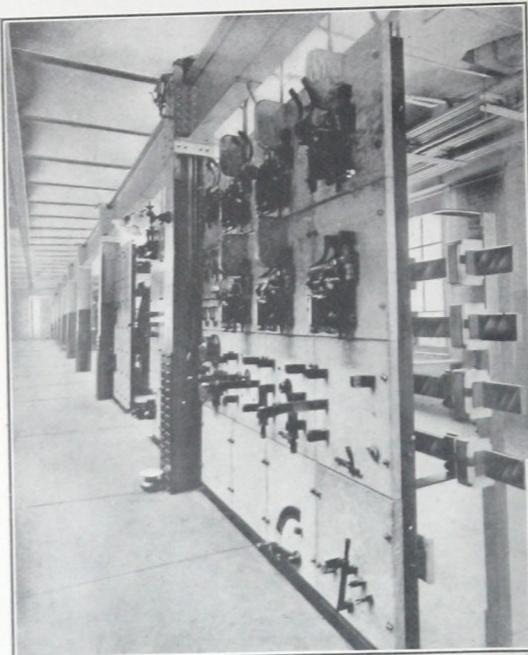
THE PHILADELPHIA ELECTRIC COMPANY



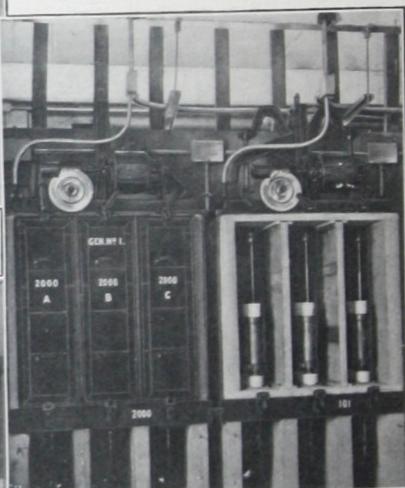
INTERIOR OF MAIN GENERATING STATION (First Section)

Maximum carrying capacity, 33,000 K. W. Two compound condensing steam engine driven units. Three Curtis turbo-generators

## THE GENERATING STATIONS AND SUB-STATIONS



DIRECT-CURRENT  
SWITCHBOARD  
STATION A



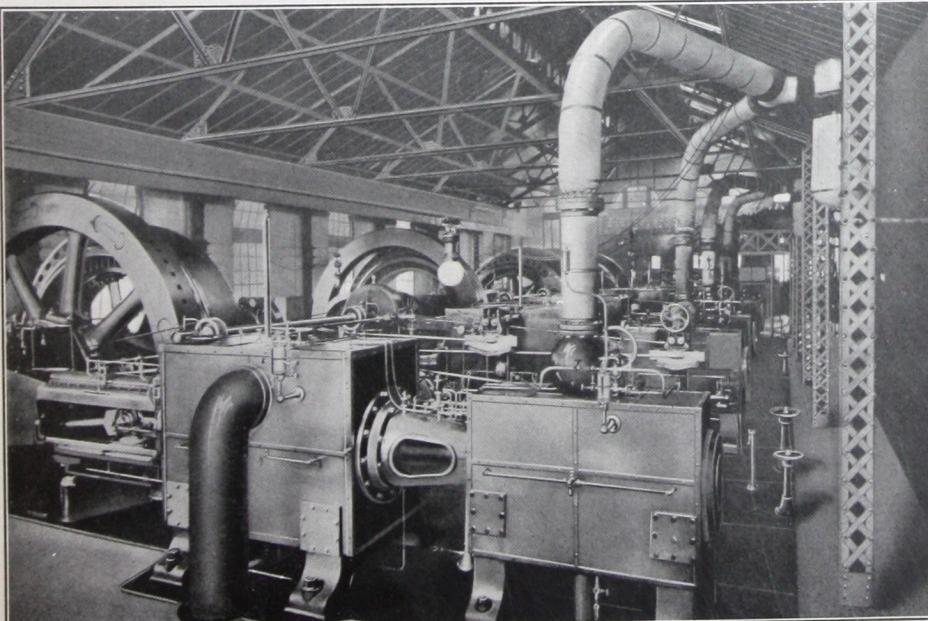
OIL SWITCHES AND CONTROL TABLE—STATION A

This station, in its design and equipment, is one of the most complete in this country, and is equal to that of any of the other companies operating in cities of the first class

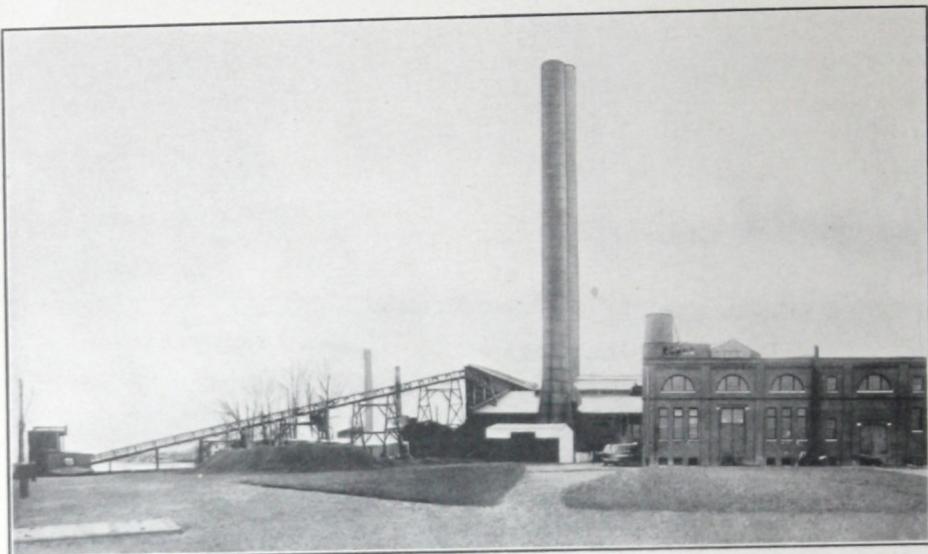


#### EXTERIOR AND INTERIOR VIEWS OF STATION G

Generating station. Capacity, four 1,000 K. W., 6,000 V. generators. Four 1,500 H. P. twin compound condensing engines

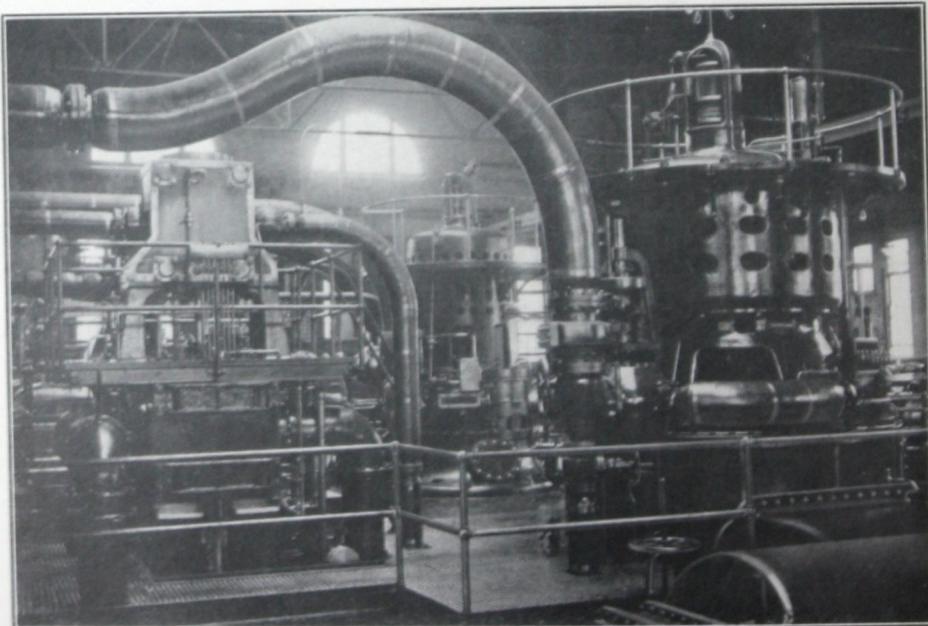


## THE GENERATING STATIONS AND SUB-STATIONS

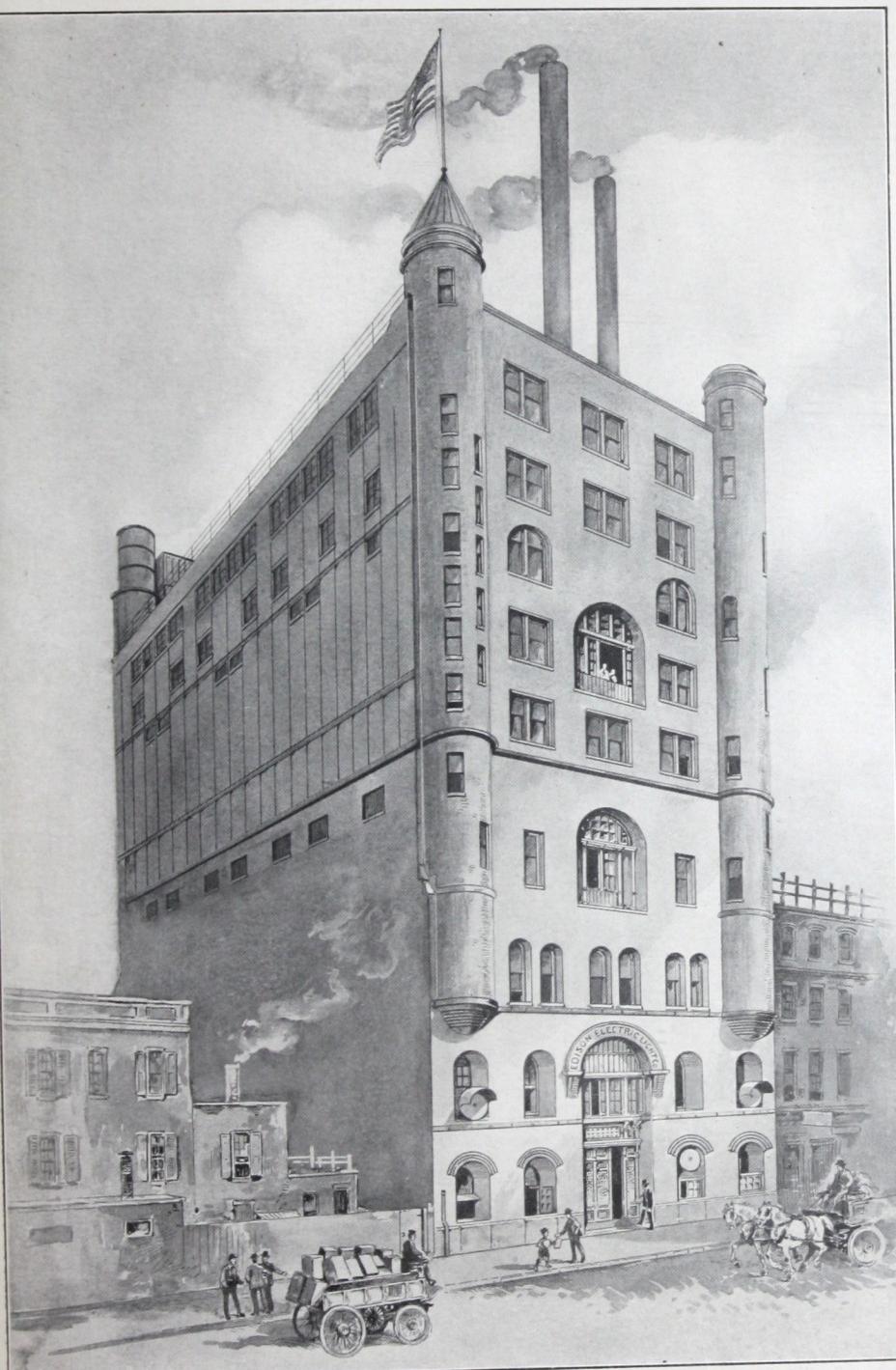


### EXTERIOR AND INTERIOR VIEWS OF STATION J

Arc light capacity, 1,750 lights. Alternating-current capacity, 2,640 K. W.  
Steam equipment: Compound condensing engines. Two steam turbines



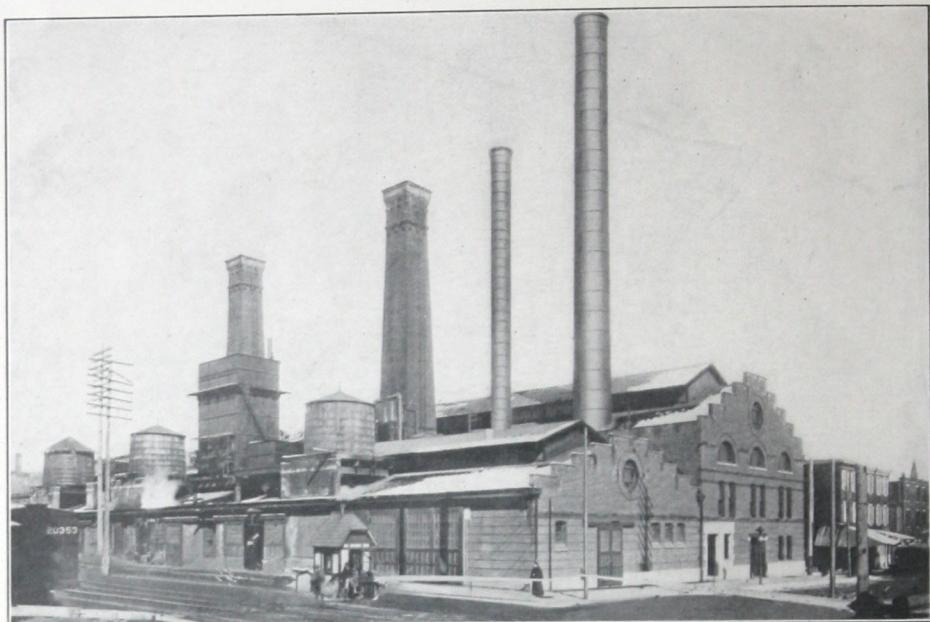
# THE PHILADELPHIA ELECTRIC COMPANY



## STATION C

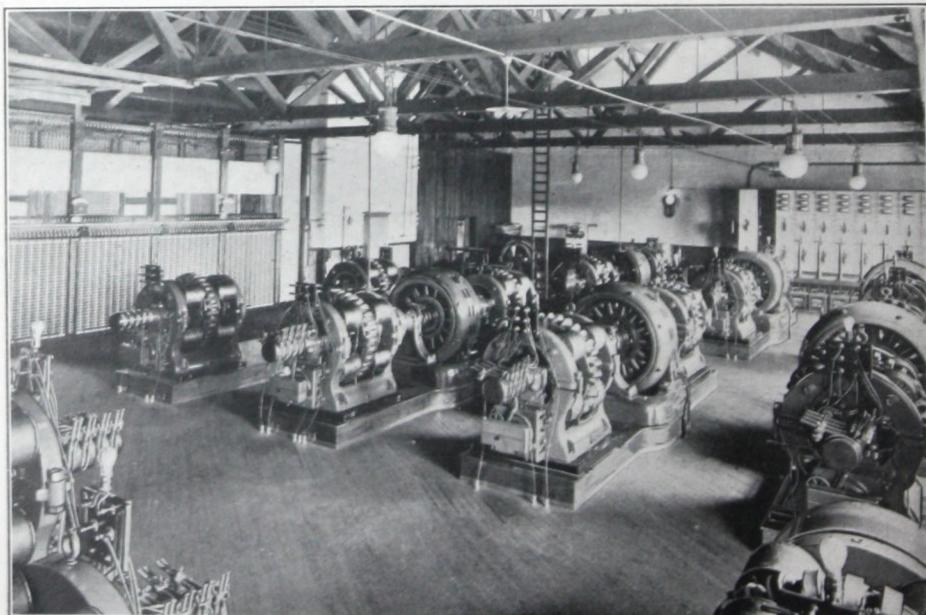
Direct-current generating station and sub-station. Generating capacity, 4,520 K. W.  
Sub-station capacity, 1,600 K. W. Storage battery capacity, 900 K. W.

## THE GENERATING STATIONS AND SUB-STATIONS

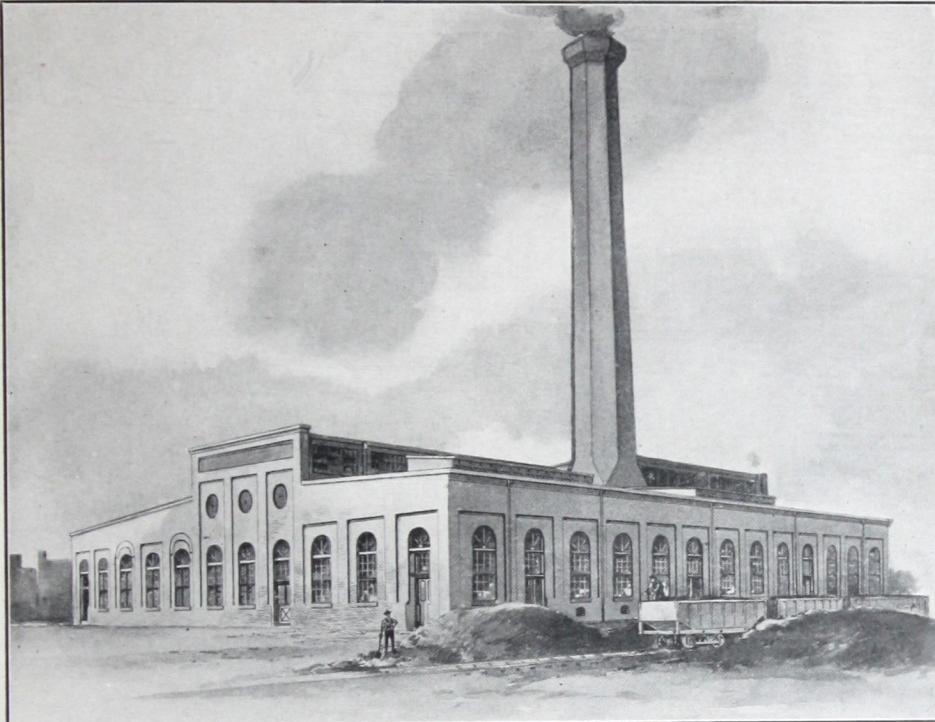


EXTERIOR AND INTERIOR VIEWS OF STATION H

Arc generating station and sub-station. Generating capacity, 1,750 lights. Motor-generators, 1,320 lights. Step-down transformers, 3,000 K. W.  
Switchboard. One 1,000 K. W. A. C. generator,  
also 500 K. W. reserve generator

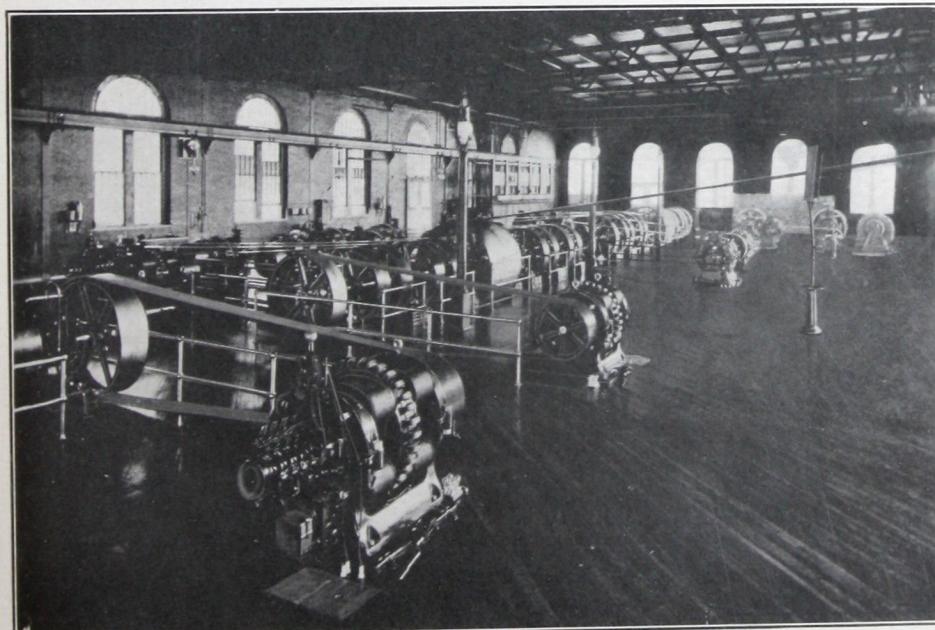


THE PHILADELPHIA ELECTRIC COMPANY

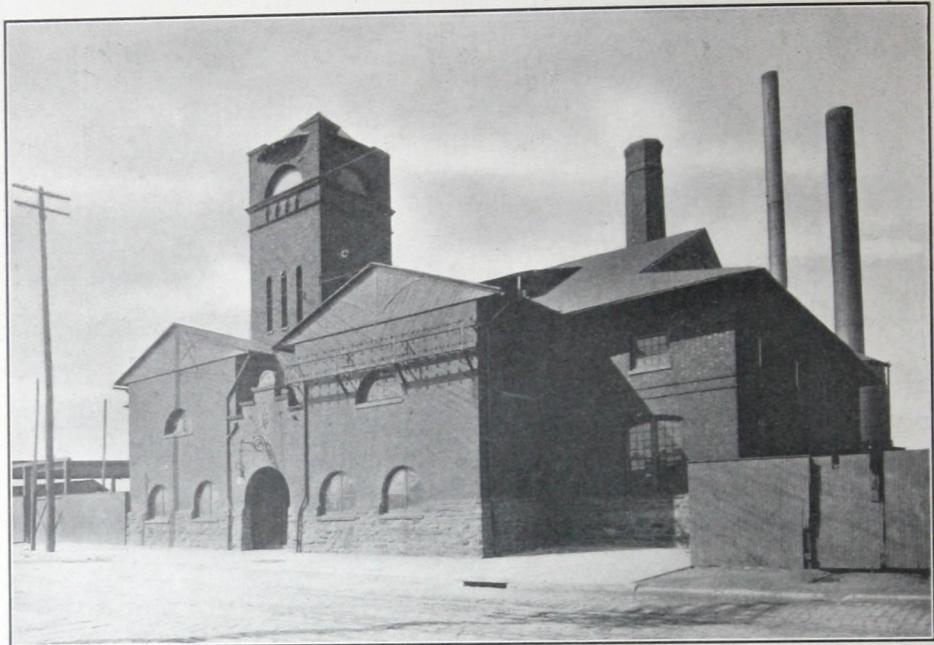


EXTERIOR AND INTERIOR VIEWS OF STATION B

Arc generating station. Capacity, 4,125 lights. Portion used as a sub-station.  
1,800 K. W. capacity

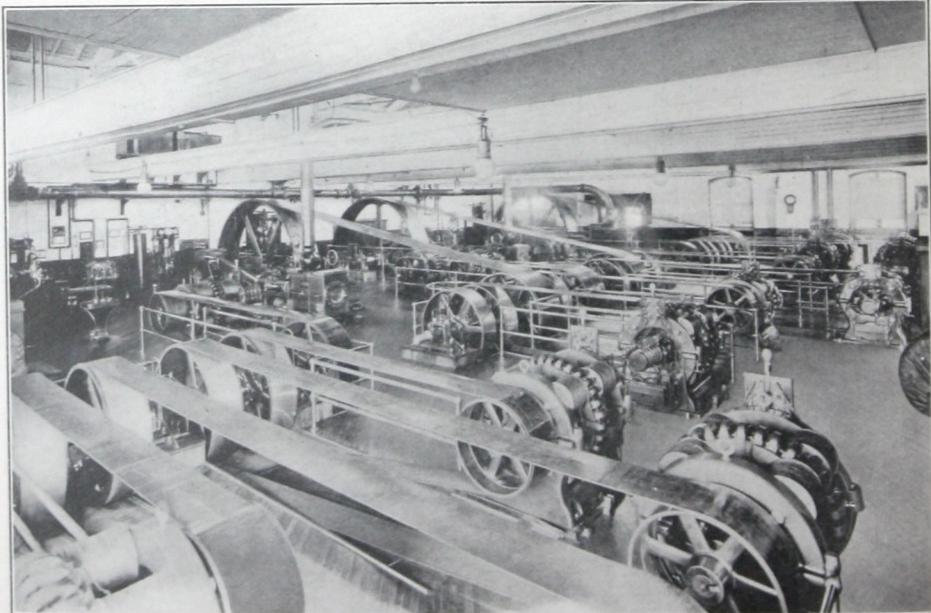


## THE GENERATING STATIONS AND SUB-STATIONS

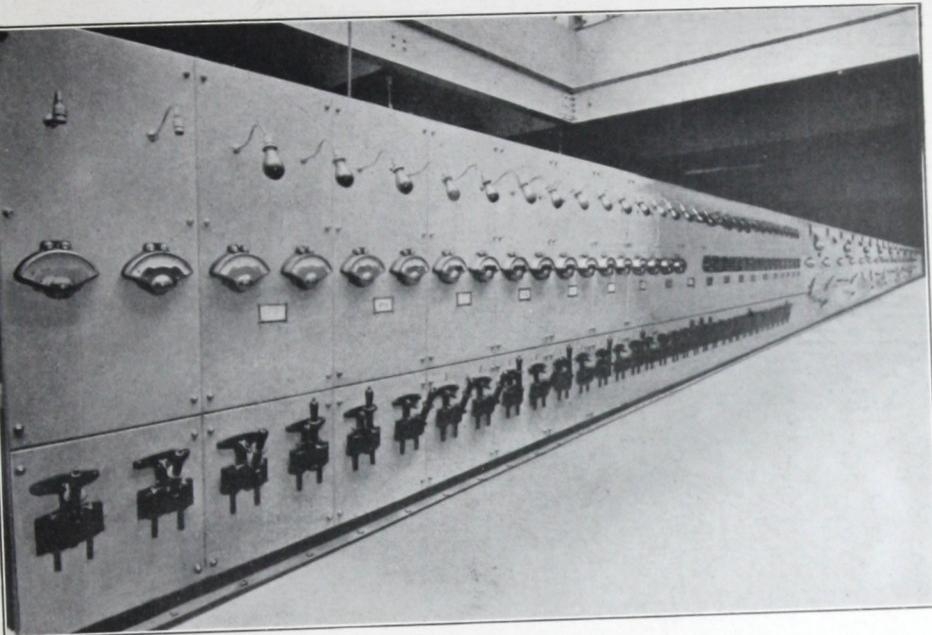


EXTERIOR AND INTERIOR VIEWS OF STATION M

Arc light generating station. Capacity, 2,000 lights



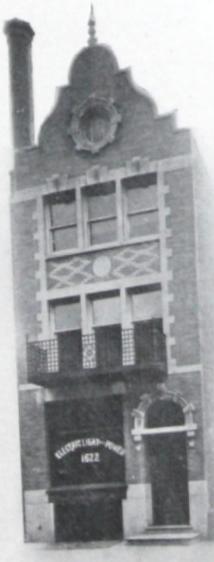
# THE PHILADELPHIA ELECTRIC COMPANY



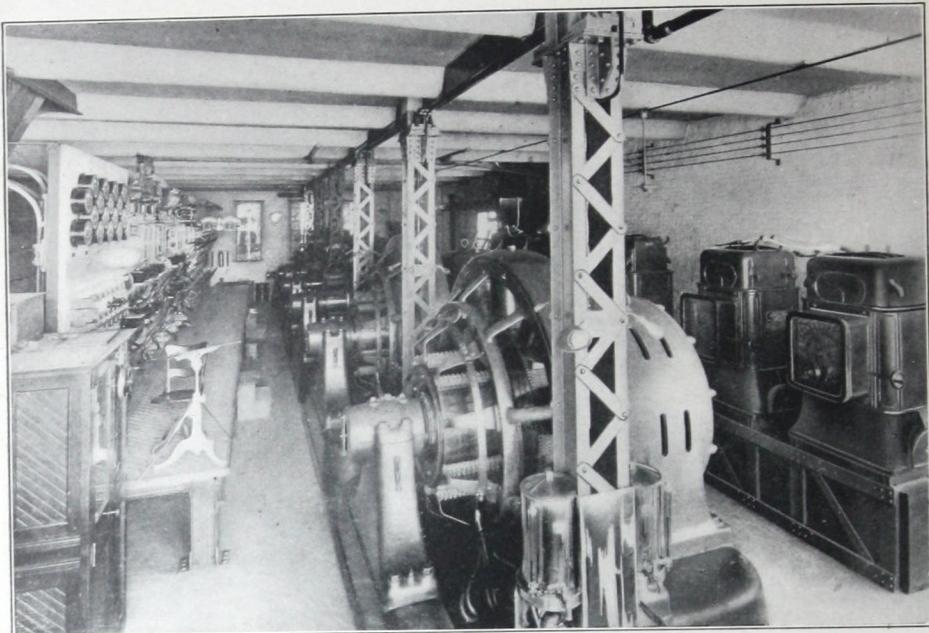
SWITCHBOARD

## STATION L

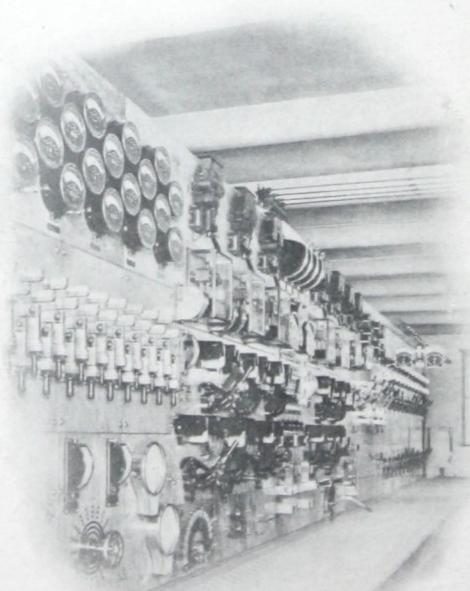
Sub-station. Capacity, 3,000 K. W.  
in air-blast transformers; also equip-  
ment of feeder regulators, switchboard,  
instruments, etc. District office.



## THE GENERATING STATIONS AND SUB-STATIONS



INTERIOR VIEW OF STATION D



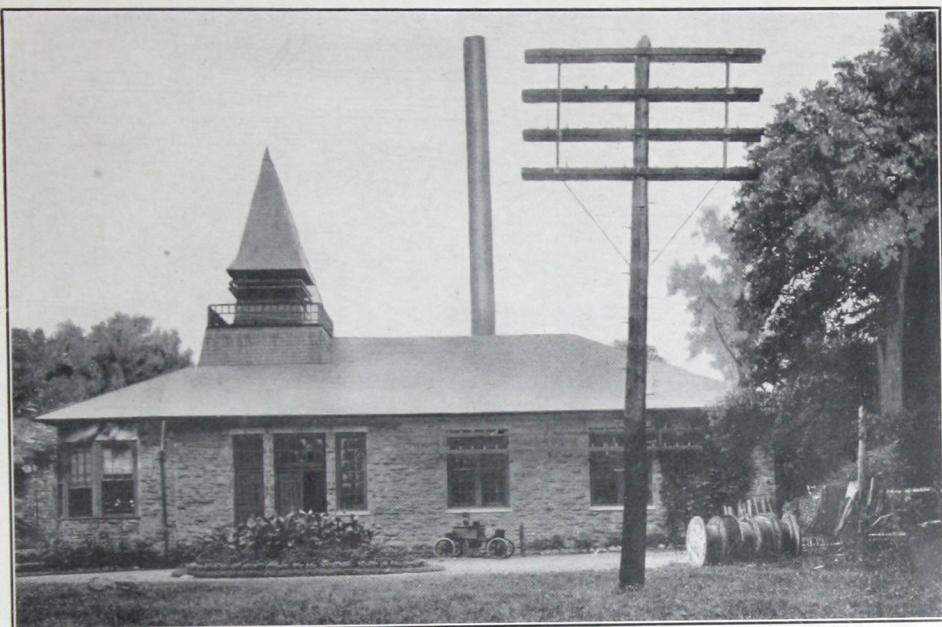
Direct-current sub-station

Capacity, 2,200 K. W. motor-generator sets

Storage battery capacity  
450 K. W.

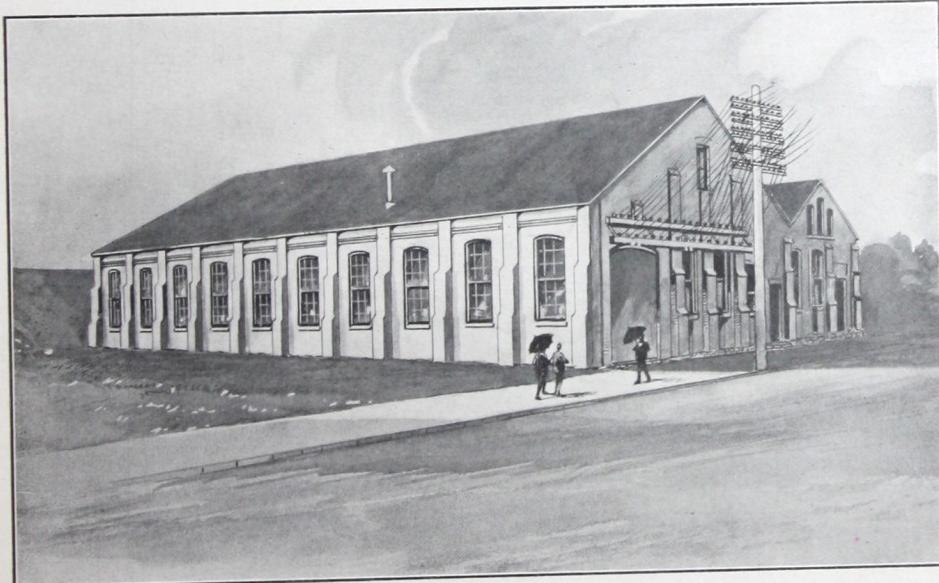
SWITCH-  
BOARD

# THE PHILADELPHIA ELECTRIC COMPANY



STATION K

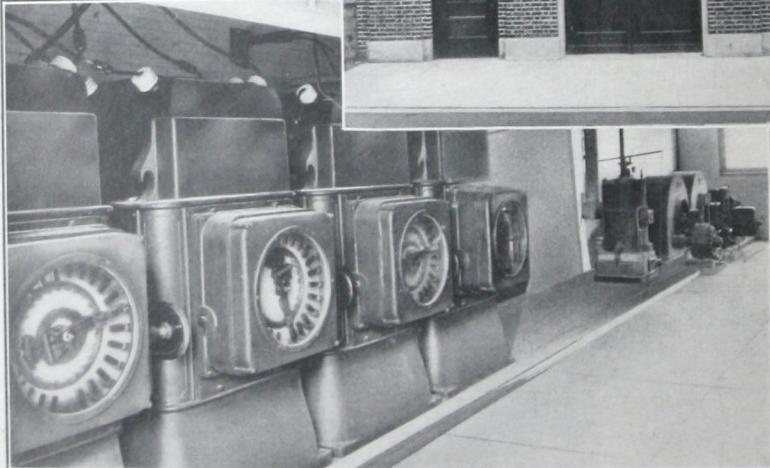
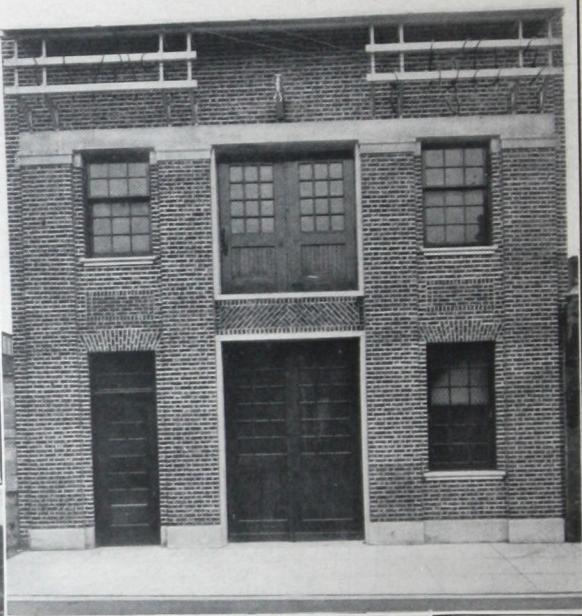
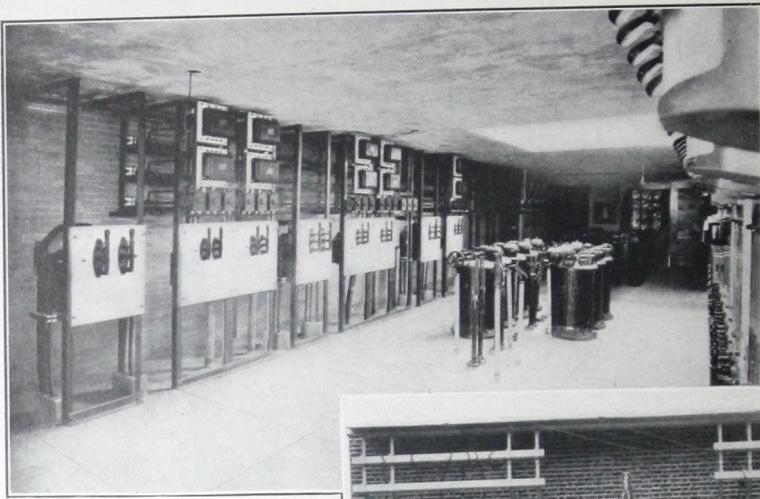
Distributing station, Cheltenham. Local office and storeroom



STATION N

Sub-station, Armat and Lena Streets, Germantown. Capacity, 1,500 K. W. air-blast type, step-down transformers, feeder regulators, etc.

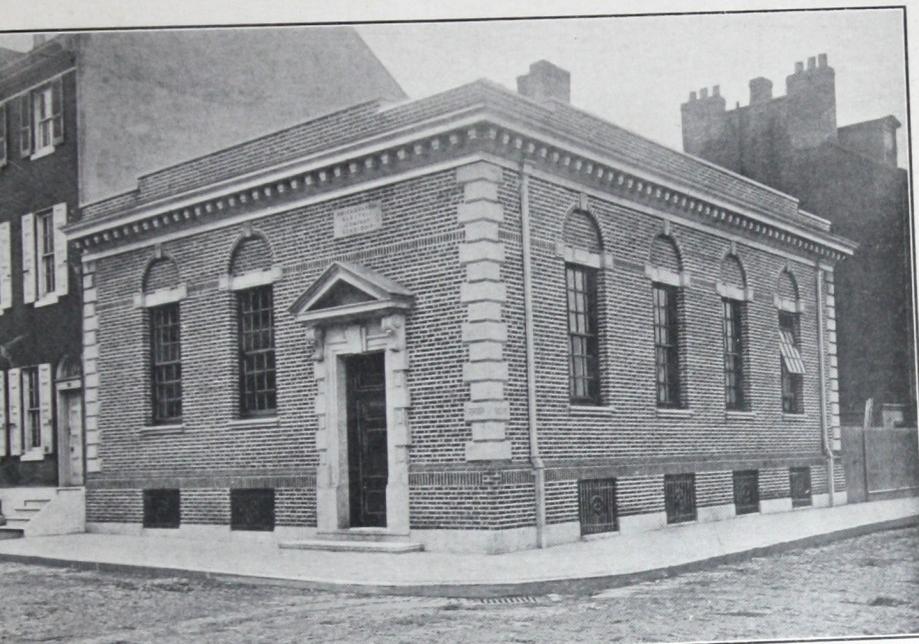
## THE GENERATING STATIONS AND SUB-STATIONS



### SUB-STATION O

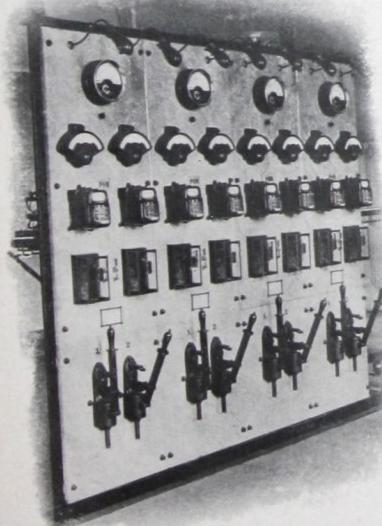
4,000 K. W. capacity. Building and equipment of the first class, including automatic regulators for the distributing feeders, oil switches, etc.  
Fire-proof construction used throughout

# THE PHILADELPHIA ELECTRIC COMPANY



## STATION P

Sub-station and distributing center. Capacity, 4,000 K. W. Equipment: Step-down, air-blast transformers, automatic regulators, oil switches, etc.

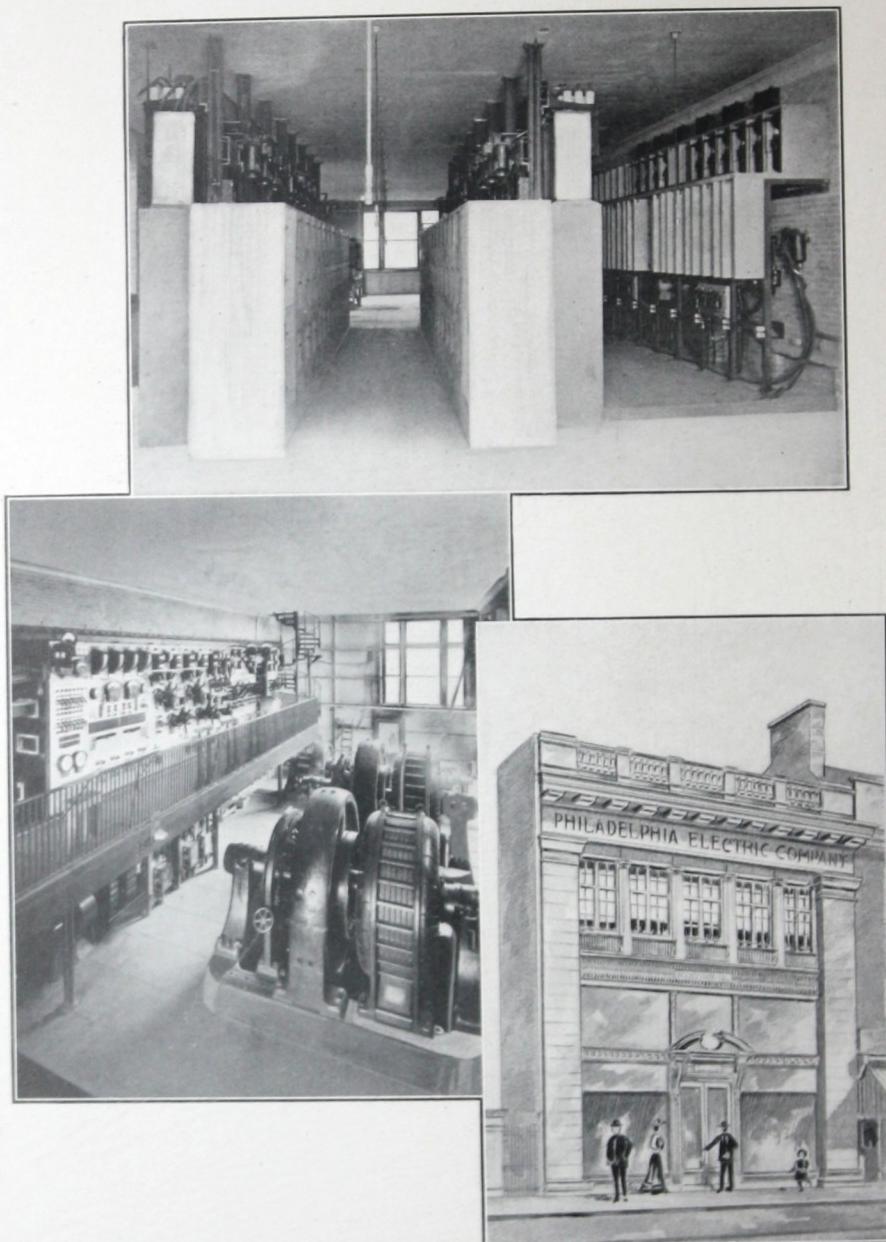


SWITCHBOARD



AUTOMATIC REGULATORS

## THE GENERATING STATIONS AND SUB-STATIONS



### STATION Q

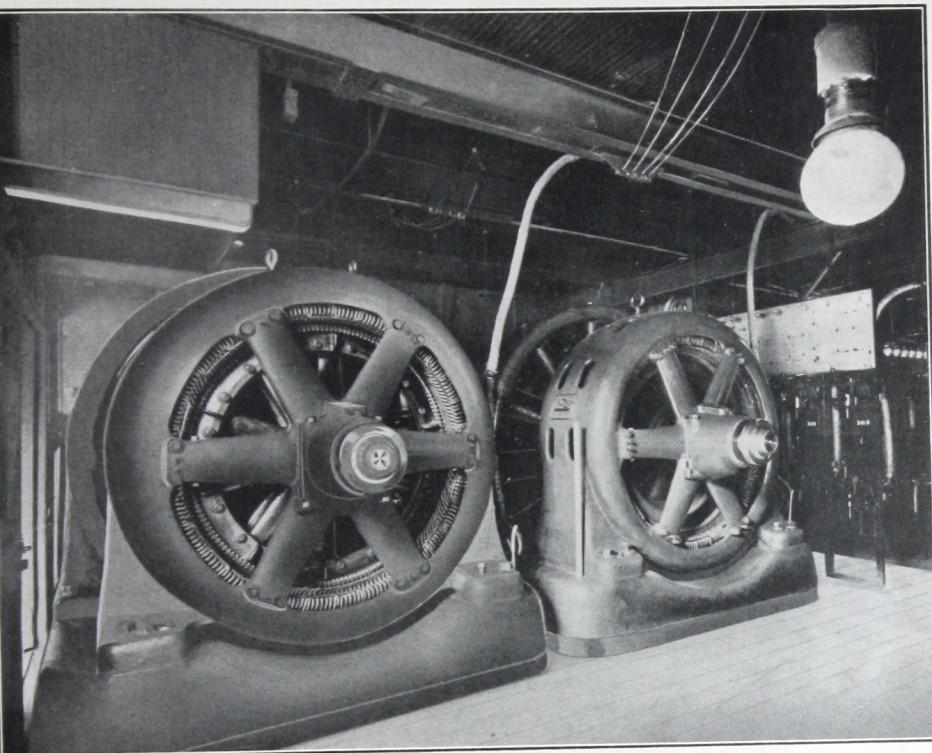
Direct-current converting and distributing station (showing proposed new front of building). Present equipment: 2,500 K.W. synchronous motor-generator sets.

Provision for the addition of 3,000 K.W.—Storage battery, 450 K.W.

capacity. High-tension and low-tension switchboards.

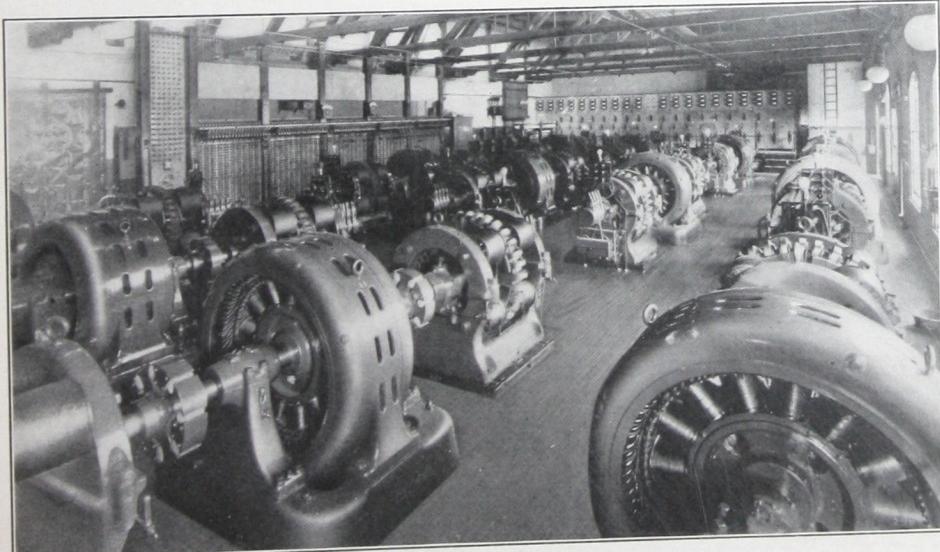
Controlling apparatus, etc.

THE PHILADELPHIA ELECTRIC COMPANY



STATION E and F

Arc generating station. Capacity, 3,525 lights. Portion equipped as a sub-station—  
4,000 arc lights capacity; also, 1,200 K. W. in low tension,  
direct-current motor-generator sets



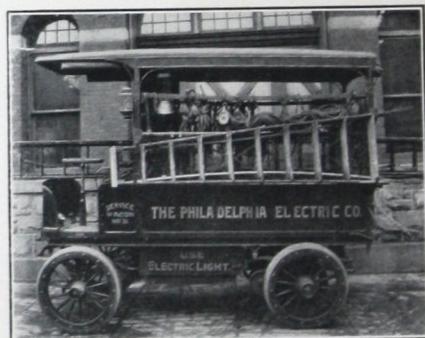
## THE GENERATING STATIONS AND SUB-STATIONS



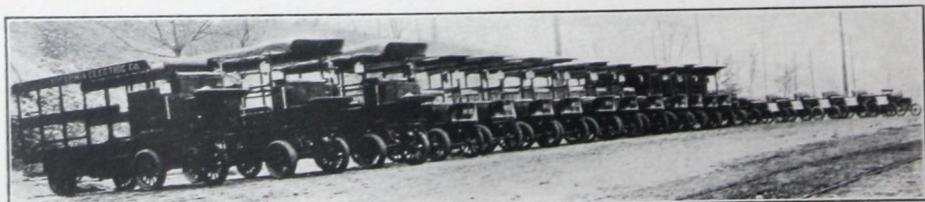
STATION S

31st Street and Girard Avenue

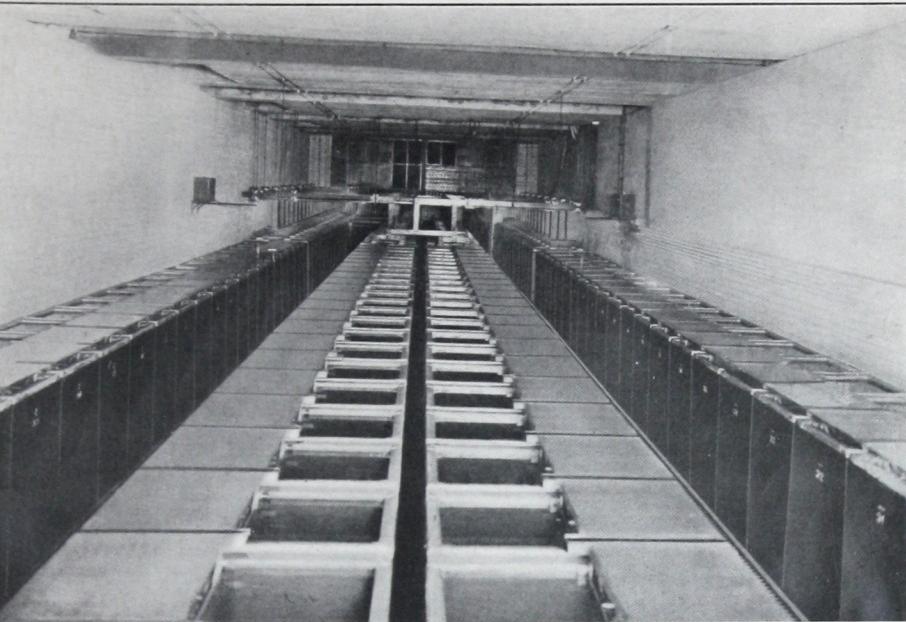
Automobile garage, arc carbon distributing center and machine shop



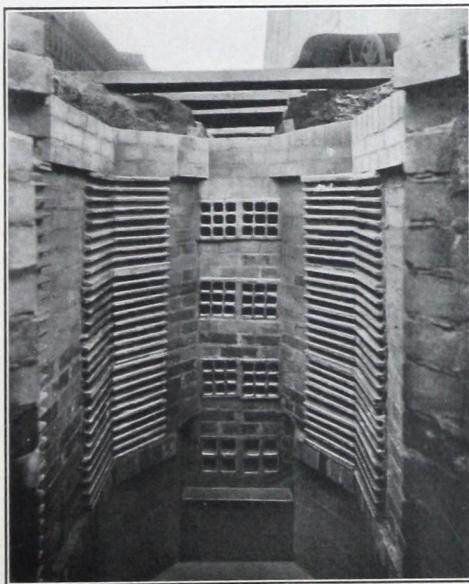
TYPE OF SERVICE AUTO



THE ELECTRIC AUTOMOBILE EQUIPMENT



TYPE OF STORAGE BATTERY INSTALLATION

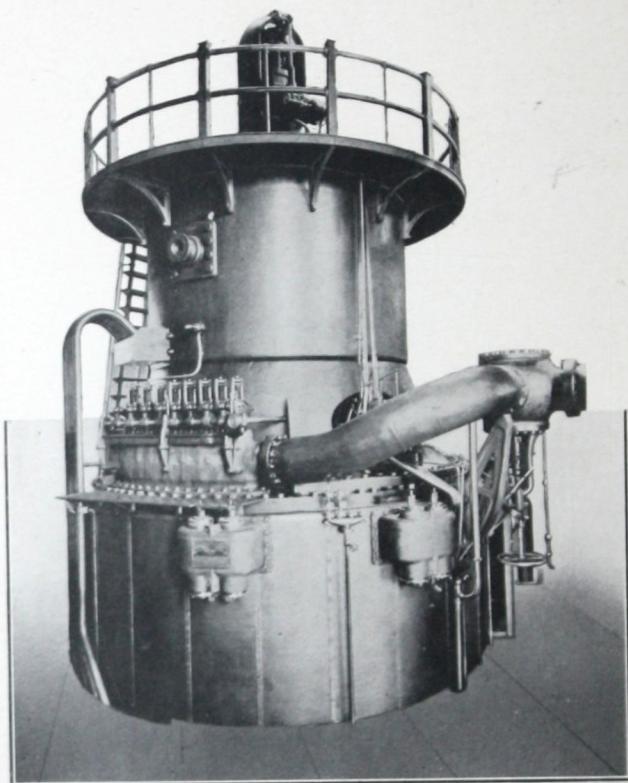


STANDARD TYPE OF MANHOLE

Showing conduits and cable-supporting racks. Capacity, 62 cables

THE PHILADELPHIA ELECTRIC COMPANY

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TYPE OF TURBO-GENERATOR INSTALLED  
IN STATIONS A and J

